

What is claimed is:

1. A method for forming a multi-colored cap part of snap button, comprising the steps of:

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forming a design portion of said cap part of snap button using a first group of molds, which including a first female mold, a first male mold, and a plate-shaped middle mold, and a slide-plate mold adapted to movably assembled to said first male mold, and said slide-plate mold including a plurality of mold cavities for forming said design portion;

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removing said slide-plate mold from said first male mold of said first group of molds when said design portion has been formed in said slide-plate mold through a first injection molding;

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movably positioning said slide-plate mold removed from said first male mold into a second female mold included in a second group of molds for forming a body portion of said cap part of snap button; said second group of molds also including a second male mold;

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positioning a post for said cap part of snap button

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in said second male mold of said second group of molds;
and

5 forming said body portion of said cap part of snap
button using said second group of molds through a
second injection molding, so that said design portion
formed through said first injection molding is
associated with said body portion in said second
injection molding to produce a molded finished product
10 of said cap part of snap button.

2. The method for forming a multi-colored cap part of
snap button as claimed in claim 1, further comprising
a step of removing said slide-plate mold from said
15 second group of molds after said finished product is
formed, and movably engaging said slide-plate mold
with said first male mold of said first group of molds
again to start a next cycle of said method for forming
said cap part of snap button.

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3. The method for forming a multi-colored cap part of
snap button as claimed in claim 1, wherein said
slide-plate mold is transferred to and from said second
group of molds via a bi-directional conveyer.

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4. The method for forming a multi-colored cap part of snap button as claimed in claim 2, wherein said slide-plate mold is transferred to and from said second group of molds via a bi-directional conveyer.

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5. The method for forming a multi-colored cap part of snap button as claimed in claim 1, wherein said slide-plate mold is provided in said mold cavities with locating elements.

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6. The method for forming a multi-colored cap part of snap button as claimed in claim 1, wherein said first male mold in said first group of molds is internally provided at predetermined positions with a first pair of guide channels, with which said slide-plate mold is movably engaged; and said female mold in second group of molds is internally provided at predetermined positions with a second pair of guide channels, with which said slide-plate mold is movably engaged in an upside down position.

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7. An apparatus for forming a multi-colored cap part of snap button, comprising:

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a first group of molds for forming a design portion

of said cap part of snap button; said first group of molds including a first female mold, and a first male mold that is internally provided at predetermined positions with a first pair of guide channels;

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a second groups of molds for forming a body portion of said cap part of snap button; said second group of molds including a second female mold, which is internally provided at predetermined positions with a second pair of guide channels, and a second male mold, in which a post for said cap part of snap button is pre-positioned at a predetermined position; and

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a slide-plate mold adapted to selectively engage with said first pair of guide channels and said second pair of guide channels, so as to cooperate with said first and said second group of molds to respectively form said design portion and said body portion of said cap part of snap button in two injection molding processes; and said slide-plate mold being provided with mold cavities corresponding to said design portion to be formed.

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8. The apparatus for forming a multi-colored cap part of snap button as claimed in claim 7, further

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comprising a bi-directional conveyer located between said first and said second group of molds for conveying said slide-plate mold to and from said second group of molds.

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9. The apparatus for forming a multi-colored cap part of snap button as claimed in claim 7, wherein said mold cavities on said slide-plate mold are provided with locating elements.

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